

**Amendments to the Specification:**

*Please replace the paragraph beginning on page 8, line 14, with the following amended paragraph:*

FIG. 5 shows the full length amino acid sequence of  $\beta$ -secretase 1-501 (SEQ ID NO: 2), including the ORF which encodes it (SEQ ID NO: 1), with certain features indicated, such as “active-D” sites indicating the aspartic acid active catalytic sites, a transmembrane region commencing at position 453 455, as well as leader (“Signal”) sequence (~~residues 1-22~~residues 1-21; SEQ ID NO: 46) and putative pro region (~~residues 23-45~~ residues 22-45; SEQ ID NO: 47) and where the polynucleotide region corresponding the mature enzyme region corresponding to amino acids 46-501 (SEQ ID NO: 43)(nt 135-1503) is shown as SEQ ID NO: 44 and contains an internal peptide region (SEQ ID NO:56) and a transmembrane region (SEQ ID NO:62).

*Please replace the paper copy of the substitute sequence listing with the paper copy of the second substitute sequence listing in the Appendix.*